BLAUPUNKT **AUTORADIO**

Los Angeles MP74
7 644 815 310

Seattle MP74
7 644 810 310

8 622 404 243 BE-ST 06/04

Schaltbild • Circuit diagram

CLASS 1
LASER PRODUCT

UNSICHTBARE LASERSTRAHLUNG
NICHT DEM STRAHL AUSSETZEN

(D) VORSICHT!

Die Geräte beinhalten eine Laserkomponente! Im Servicefall bitte nachfolgende Hinweise beachten:

- Das Gerät arbeitet mit unsichtbarem Laserstrahl.
- Bei geöffnetem Gerät tritt im Bereich des Plattenfaches Laserstrahlung aus.
- Nicht in den Strahl blicken.
- Unbeteiligte Personen vom Arbeitsplatz fernhalten.
- Der Betrachtungsabstand darf 13 cm nicht unterschreiten.
- Kann dies nicht eingehalten werden, muß eine geeignete Laserschutzbrille getragen werden.

(GB) CAUTION!

The CD units are equipped with a laser component! For servicing make sure to observe the following instructions:

- The unit operates with invisible laser beams.
- When the cover is removed, invisible laser beams are emitted near the disc compartment.
- Avoid direct eye contact with these beams.
- Keep unauthorised persons away from the workbench.
- The viewing distance should not be less than 13 cm.
- If this distance cannot be kept, use suitable laser safety goggles.

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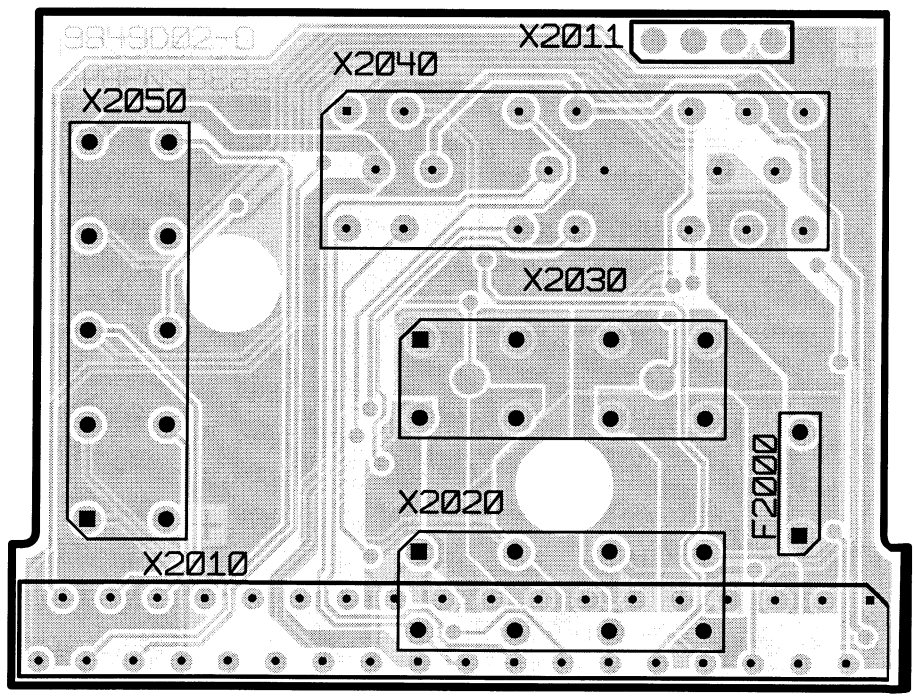
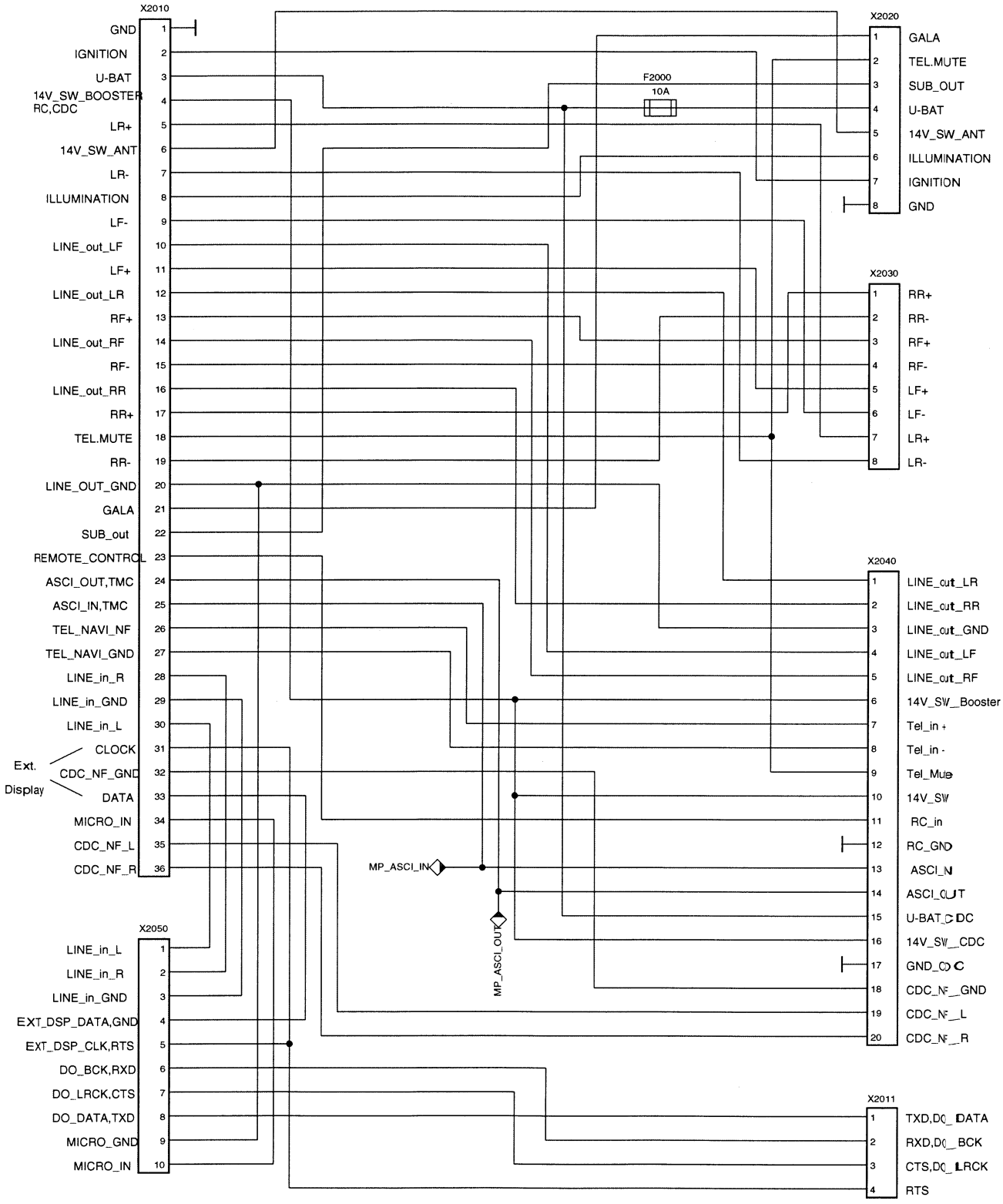
Anschlussplatte
Connector board
PL 8 638 219 849 D02



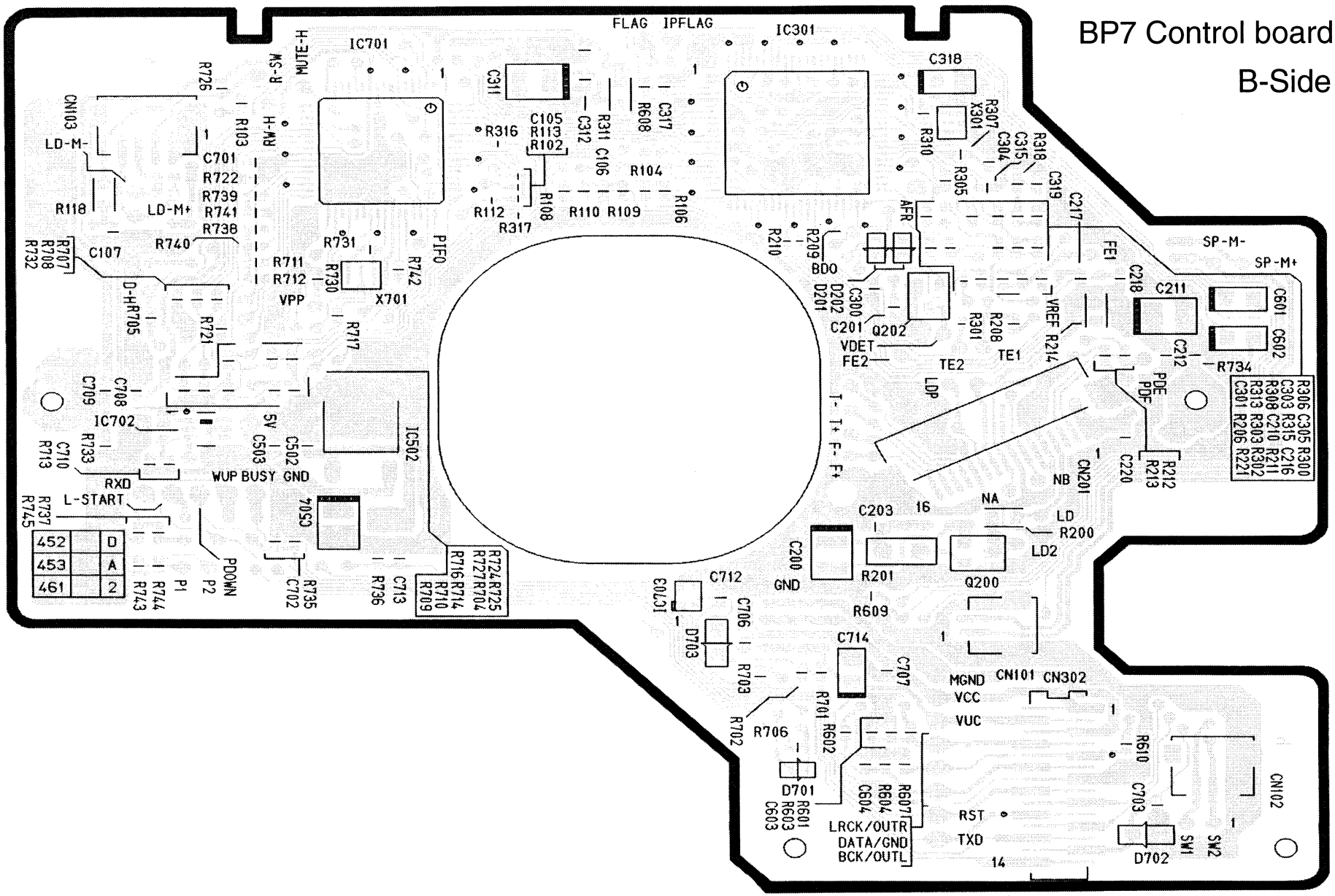


ANSCHLUSSPLATTE
CONNECTOR BOARD

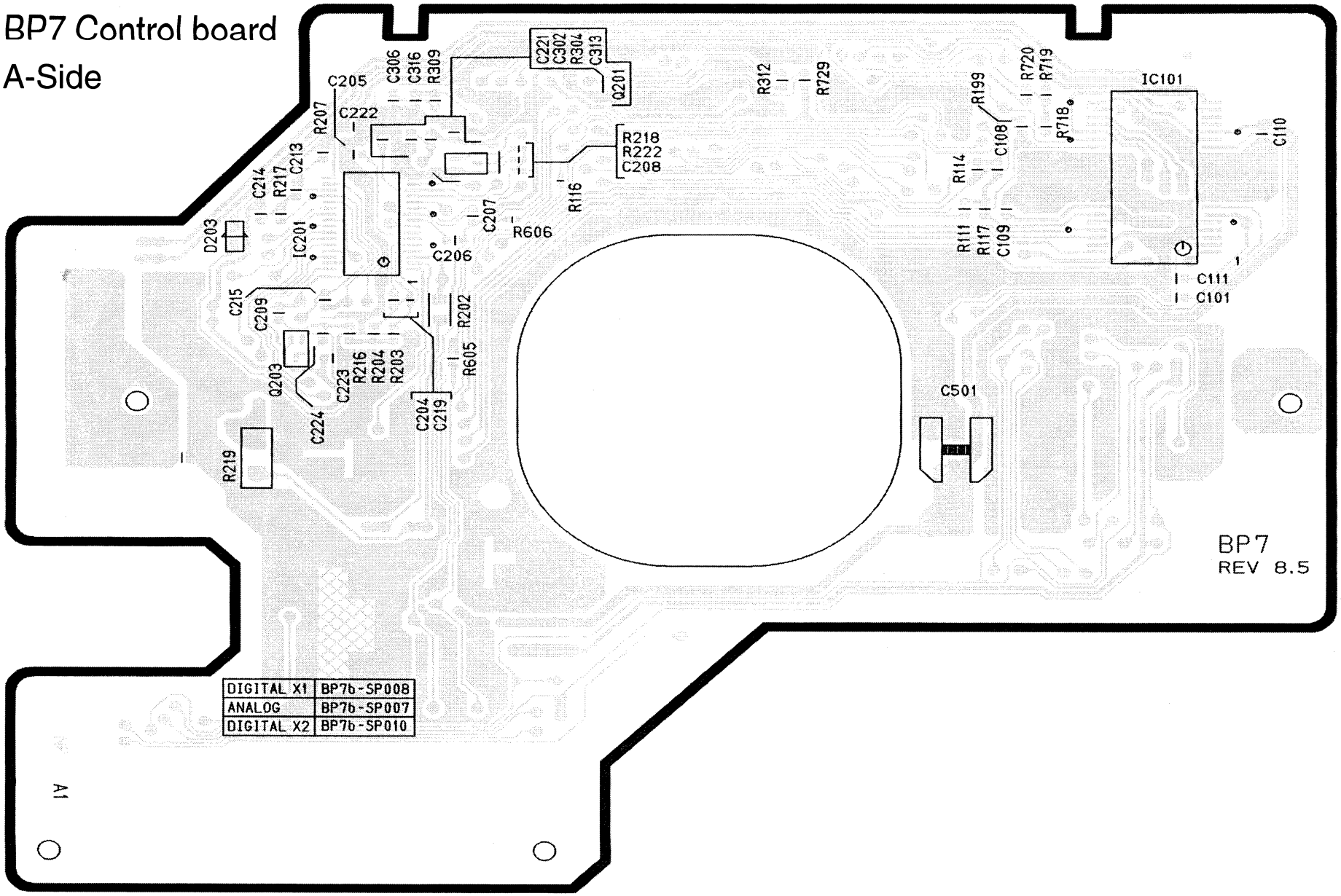
PL 9849 D02

BP7 Control board

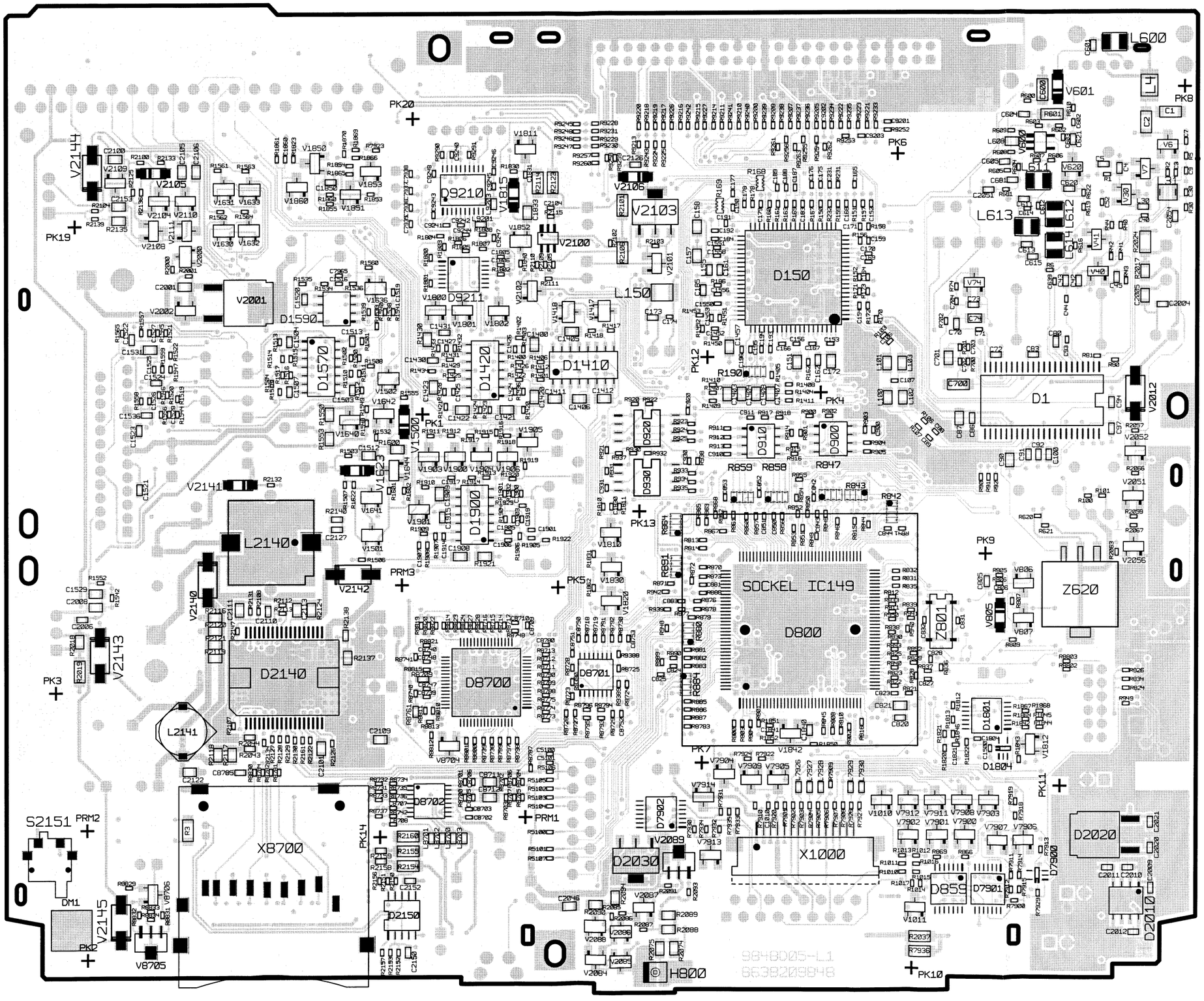
B-Side



BP7 Control board
A-Side



Hauptplatte
Main board
PL 8 638 219 848 D05
Chip


PK20
PK19
PK6
PK12
PK4
PK1
PK13
PK5
PK3
PK14
PK2
PK9
PK7
PK11
PK10
PRM1
PRM2
PRM3
L600
L613
L612
L614
L611
L2140
L2141
L150
D150
D1590
D1570
D1420
D1410
D9210
D9211
D1900
D2140
D8700
D8701
D8702
D2150
D2030
D2020
D2010
D1801
D1804
D800
D859
D7901
D1
Z620
Z801
X8700
X1000
SOCKEL IC149
H800
S2151
DM1
V2144
V2143
V2145
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V2100
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V8706
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V1011
V7902
V7901
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V7907
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V7911
V7909
V7926
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V7928
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V7930
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V7936
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V620
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V2110
V2111
V2113
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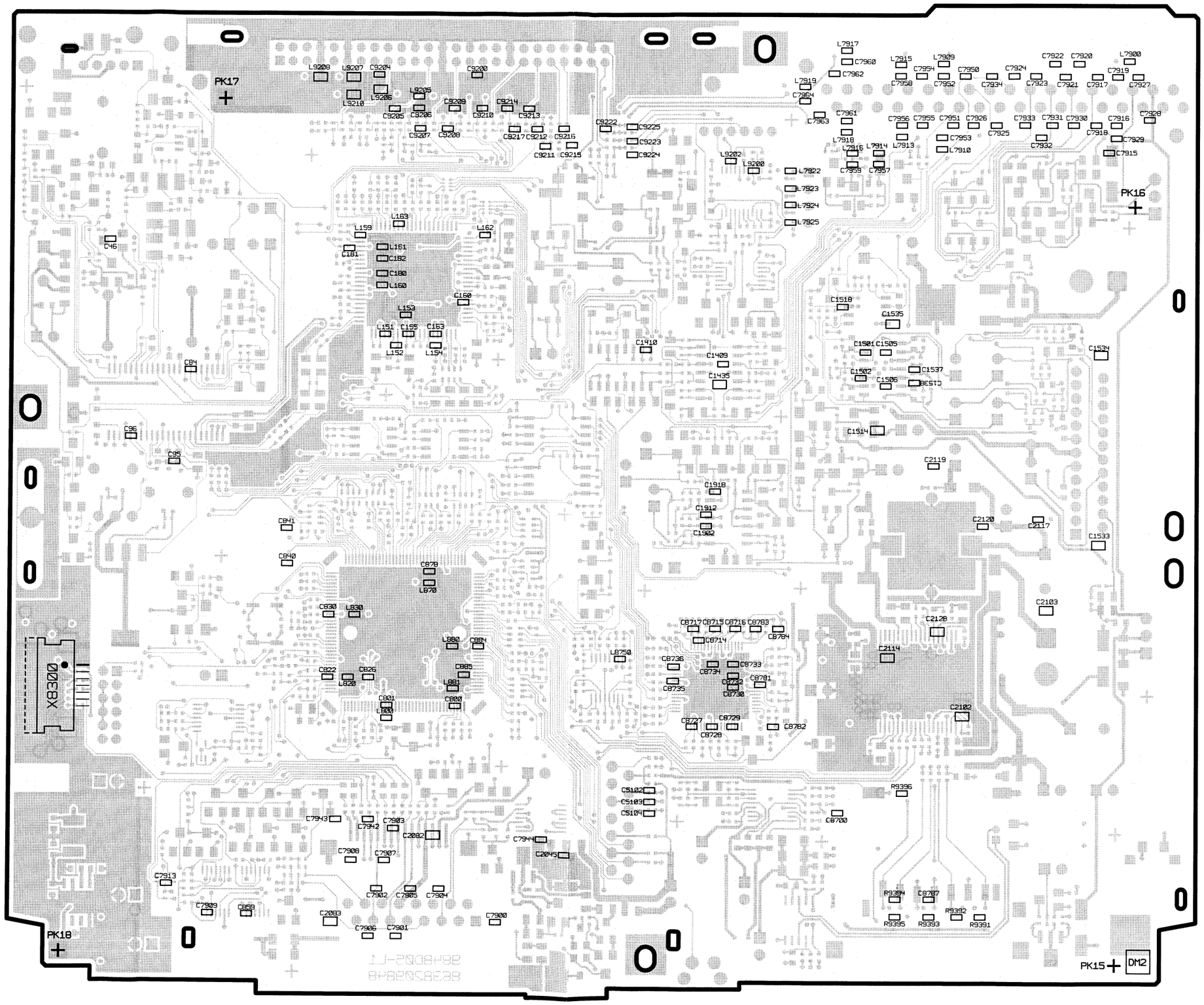
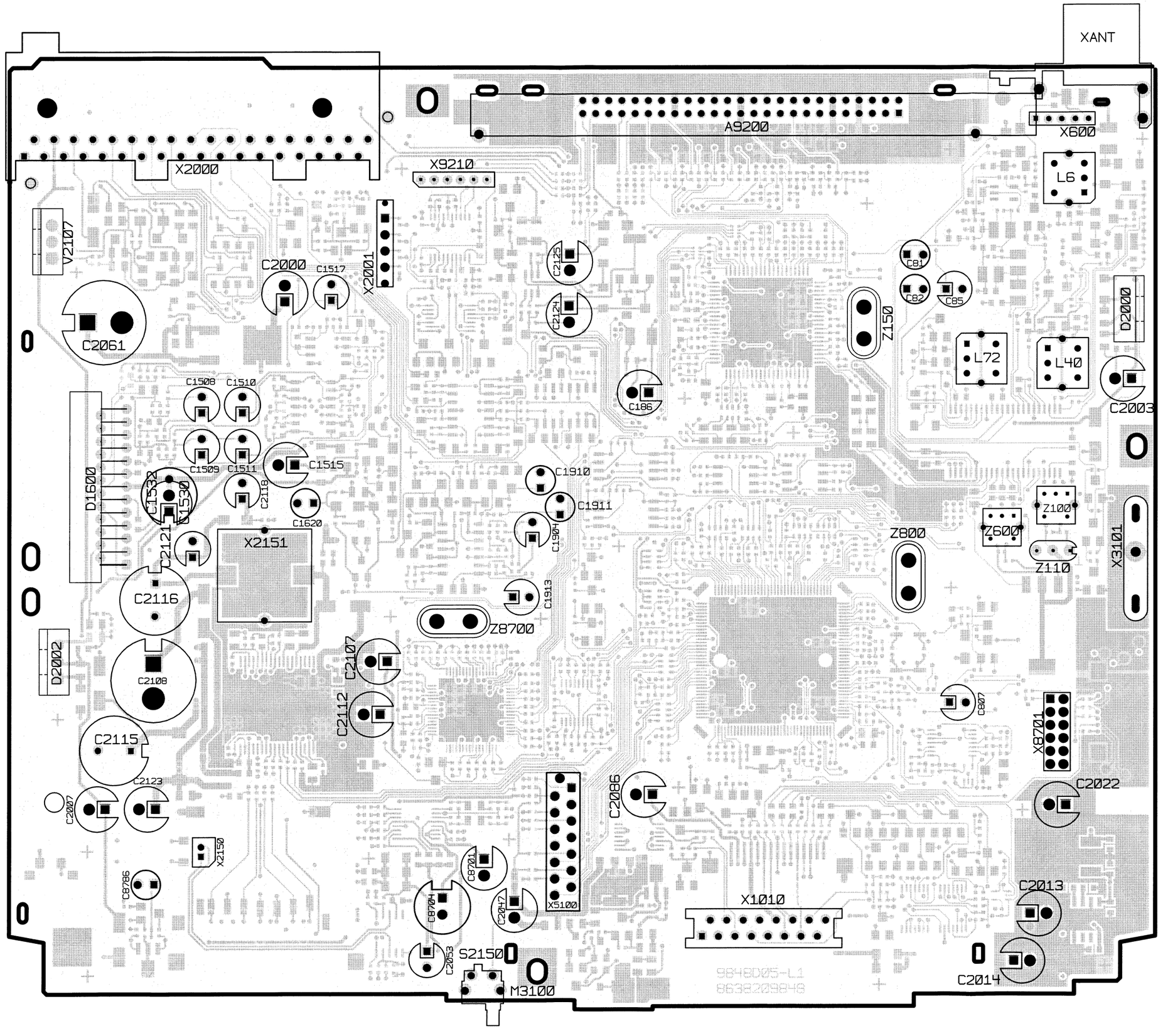
V2094
V2095
V2096
V2097

Hauptplatte
Main board
PL 8 638 219 848 D05
Chip



Hauptplatte
Main board
PL 8 638 219 848 D05

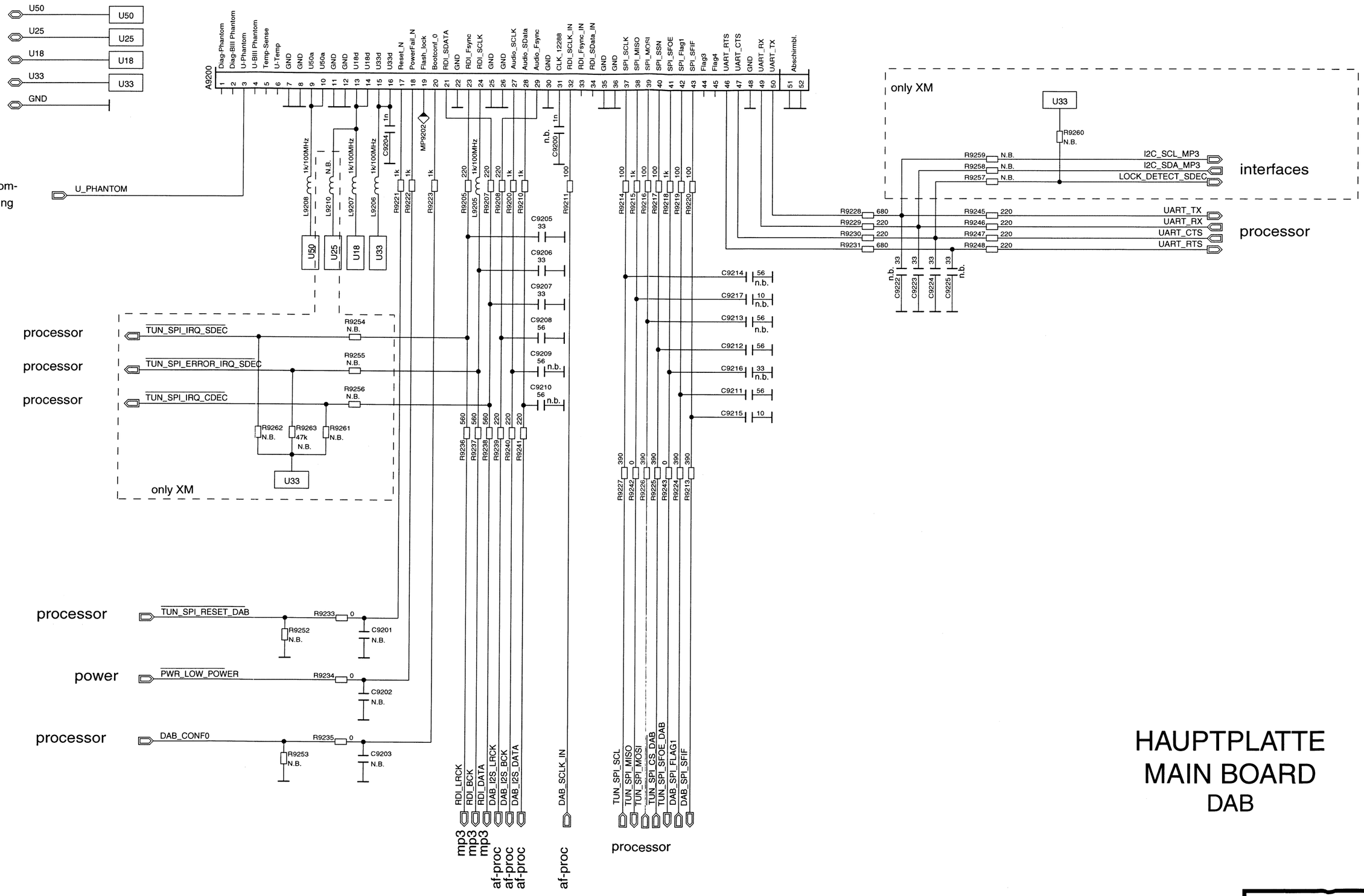


HAUPTPLATTE
MAIN BOARD
Blockschaltbild
Block diagram

PL 9848 D05

HAUPTPLATTE
MAIN BOARD
Spannungsversorgung
Power Supply

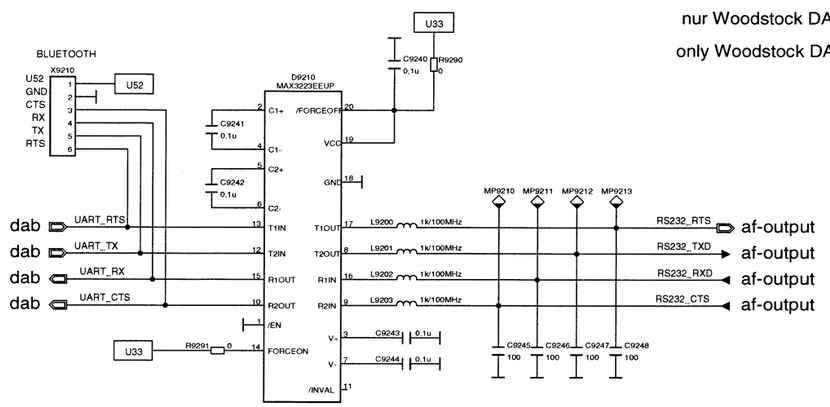
PL 9848 D05



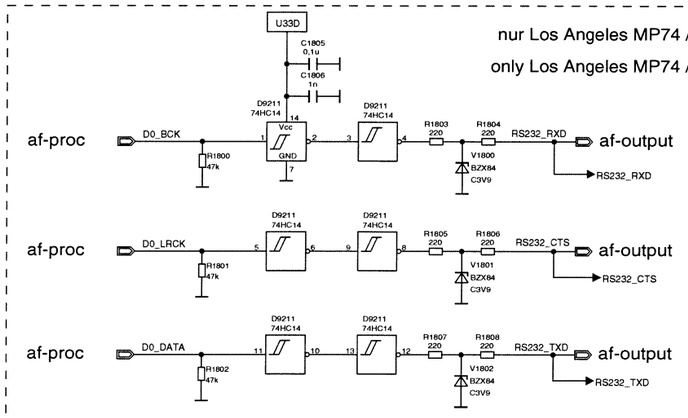
HAUPTPLATTE
MAIN BOARD
DAB

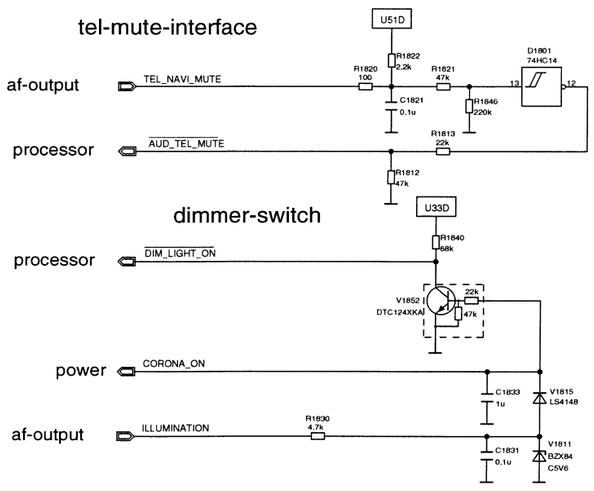
U33D
U33
U52
U51D
U141
GND

nur Woodstock DAB54
only Woodstock DAB54

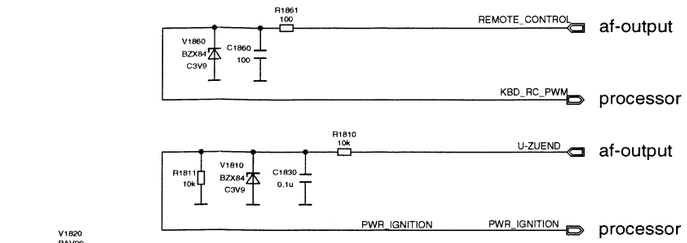


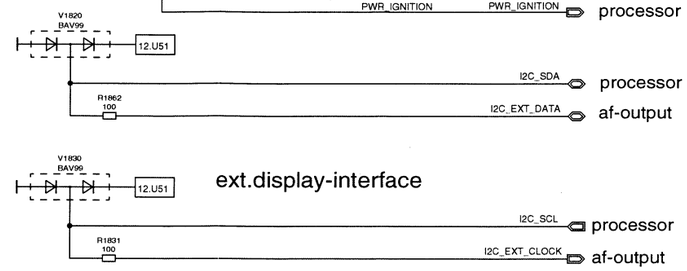
nur Los Angeles MP74 / Seattle MP74
only Los Angeles MP74 / Seattle MP74

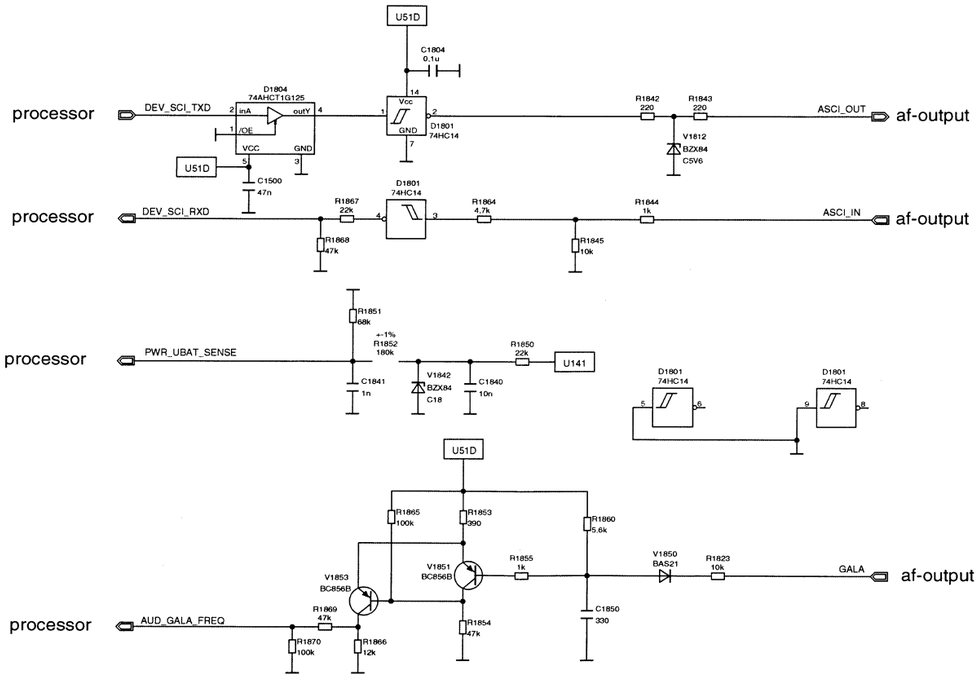


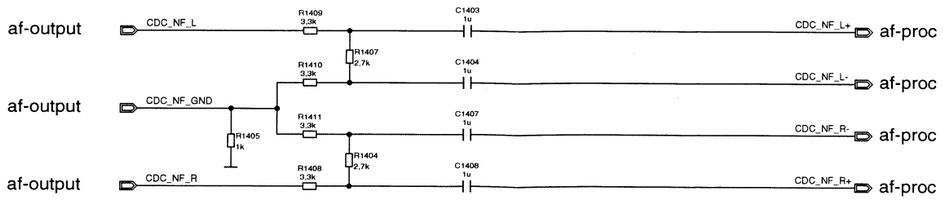


HAUPTPLATTE
MAIN BOARD
Schnittstelle
Interface









HAUPTPLATTE
MAIN BOARD
Anschlussbelegung
Connection

PL 9848 D05

processor

processor

HAUPTPLATTE
MAIN BOARD
NF-Prozessor (DCR4)
AF Processor (DCR4)

PL 9848 D05

D150
DCR4R

U33
GND
GND_A
L150 1k/100MHz
C173 0,1u n.b.
C174 10n
C186 47u
5.U34
L151 1k/100MHz
L152 1k/100MHz
L153 1k/100MHz
L154 1k/100MHz
C155 0.1u
C172 1u
C162 0,22u
C151 1u
C167 15n
R162 820
C153 4,7n
C156 4.7n
C166 0.1u
C163 0.1u
R190 1k
CDC_NF_R-
CDC_NF_R+
CDC_NF_L-
CDC_NF_L+
interf.
C193 220
C194 220
C195 220
C196 220
IF_GND_A 80
VSSA_IFA 79
VDDA_IFA 78
VSS 77
VSSA_REF 76
VDDA_REF 75
APLL_FILT 74
VSS 73
VDD 72
VDD 71
VSS 70
SCE 69
REF_AAD_L 68
REF_AAD_H 67
VSSA_AAD 66
VDDA_AAD 65
AADR2_N 64
AADR2_P 63
AADL2_N 62
AADL2_P 61
tuner
ZF_A
ZF_B
IF_P 1
IF_N 2
IFA_REF_L 3
IFA_REF_H 4
SCAN_TM 5
MODE 6
LDB3P 7
LDB3N 8
CLK1 9
VSS 10
VSS 11
VDD 12
VSSA_DSC 13
VDDA_OSC 14
XTALI_A 15
XTALO_A 16
VSS 17
VDD 18
SCPTX 19
SCPCK 20
SCPRX 21
IRQ_B 22
CS_B 23
CLK2 24
RESET_B 25
PD 26
VDD 27
VDD 28
VSS 29
VSS 30
SAI3_WS 31
SAI3_CLK 32
SAI3_DO 33
MUTE 34
SAI3_DIN1 35
SAI2_DIN 36
SAI2_WS 37
SAI2_CLK 38
SAI1_DIO 39
SAI1_WS 40
SAT1_CLK 41
VDD 42
VSS 43
OUT_R2 44
AGNDIN_R 45
OUT_R1 46
VSSA_DAAR 47
REF_FILT 48
GNDREF 49
AGNDOUT 50
VDDA_DAAL 51
VSSA_DAAL 52
OUT_L1 53
AGNDIN_L 54
OUT_L2 55
AADL1_P 56
AADL1_N 57
AADR1_P 58
AADR1_N 59
AADR1_N 60
R1451 N.B.
R1452 N.B.
C1453 470
C1452 470
C1457 1u
R1450 1.8k
SOURCE_R
R1453 1.8k
SOURCE_L
af-source
NF_LR
NF_LF
C1556 1n
C1550 1n
C160 0.1u
R186 10
C185 0.1u
C157 1u
C158 1u
C161 0.1u
L155 1k/100MHz
5.U34
af-output
C1558 1n
C1551 1n
NF_RF
NF_RR
C184 4.7n
L162 1k/100MHz
5.U34
WOODSTOCK
LOS ANGELES
R169 100
DAB_I2S_BCK
DAB_I2S_LRCK
DAB_I2S_DATA
dab
mp3
C190 10
C191 10
C192 10
I2S_BCK
I2S_LRCK
I2S_DATA
mp3/cd
cd
R178 100
C179 10
C178 10
C177 10
R168 100
R161 220
R163 220
R165 220
D0_DATA
D0_BCK
D0_LRCK
interf.
C187 10
C188 10
C189 10
C164 10n
R152 47
R170 47
R171 47
C154 0.1u
R172 N.B.
R173 N.B.
ANT_SWITCH
FREF
5.U34
L160 1k/100MHz
C180 4.7n
L159 1k/100MHz
C181 4.7n
Z150 28,5MHz
C169 8,2
C170 8,2
L161 1k/100MHz
C182 4.7n
R156 220
TUN_SPI_MISO
TUN_SPI_SCL
TUN_SPI_MOSI
TUN_REQ1_DCR4
TUN_SPI_CS_DCR4
TUN_RES_DCR4
TUN_PD_DCR4
R158 100
R157 100
R159 100
R150 1k
R167 1k
C231 10
R232 220
R231 100
R151 220
C165 10
C183 4,7n
L163 1k/100MHz
5.U34
R160 1k
C159 10
C171 10
C152 10
C168 10
C175 1n
C176 1n
DAB_SCLK_IN
dab
processor

U142 U142
U141 U141
U51D U51D
U33D U33D
UBAT UBAT
IN-REF IN-REF
GND
GND_A

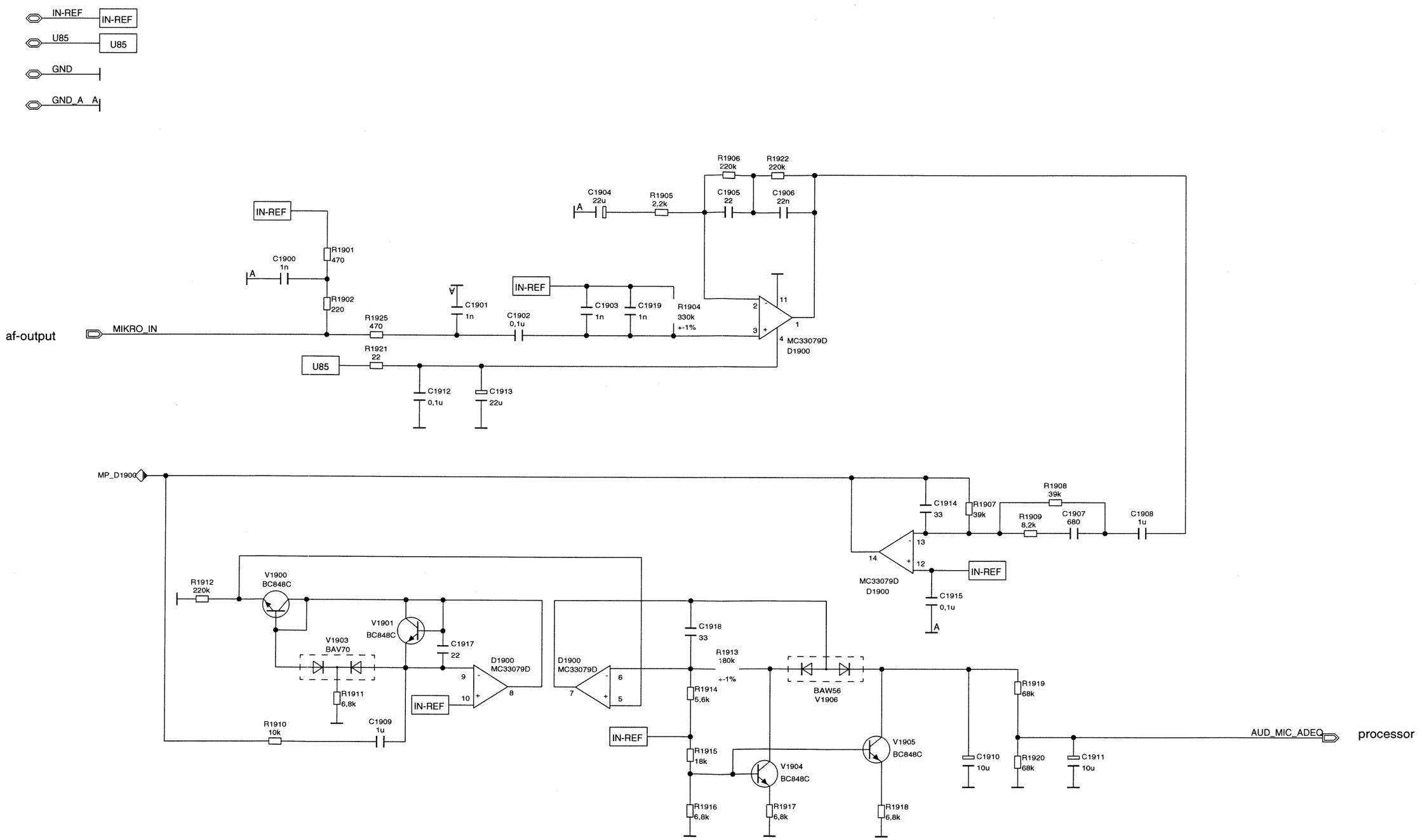
HAUPTPLATTE
MAIN BOARD
Endstufe
AF Output

PL 9848 D05

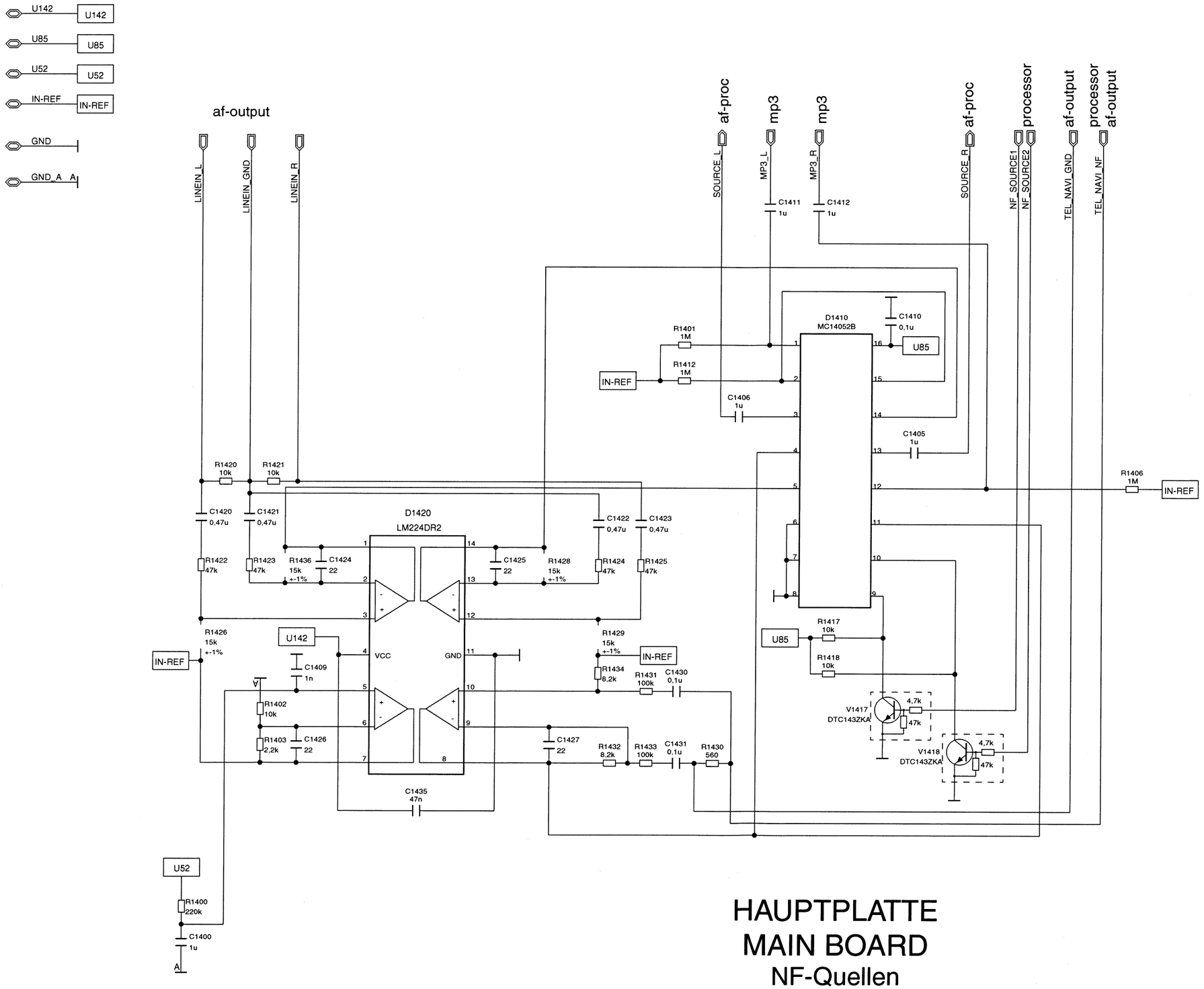
U85
GND
XANT
ANT_SWITCH
af-proc.
TUN_TINA1_AM/FM
proc.
MP_VT_VK
MP_VT_ZK
MP_UFM
MP_UAM
MP_OSZ
MP_OSZ_B
FREF
TUN_SPI_MOSI
TUN_SPI_SCL
TUN_SPI_CS_TINA1
ZF_A
ZF_B
af-proc.
af-proc.
proc.
D1
U4257BM
DAC1
DAC2
FMAGC0
MXFMIA
MXFMIB
GNDRF
MXAMIB
MXAMIA
AMAGC0
IFAGCA2
SW2/AGC
RFAGCA2
SW1
VRVCO
VSPLL
FMLF
AMLF
VTUNE
OSCGND
OSCE
OSCB
OSCBUF
MXFM0B
MXFM0A
RFAGCA1
VST
MXAOA
MXAOB
GND
VRT
IFINFM
IFINAM
IFREF
RFAGCFM
IFAGCA1
IFAGCCFM
IFOUTA
IFOUTB
GNDPLL
REFFREQ
VRPLL
DATA
CLK
EN
X600
AM
GND
FM
U85
SW.
V30 BF999
V40 BB814-SH1
V41 BB814-SH1 n.b.
V7 BB814-SH1
V74 BB814-SH1
V620 1SV172
V2051 BC808-25
V2052 BC808-25
V2056 BC848C
V600 HN3G01J
V601 S247Z
Z100 10,7MHz
Z110 10,7MHz
Z600 10,6875MHz
Z620 10,6875MHz
ABSCHIRM.
L40 0,1uH
L6 0,1uH
L72 63nH
R5 470
R30 10
R40 N.B.
R41 0
R42 56k
R44 N.B.
R1 100k
R2 56k
R43 56k
R619 1k
R622 10k
R620 10k
R74 10k
R702 10k
R701 220k
R700 5.6k
R681 10
R2057 10k
R2067 47k
R2063 12k
R2059 100k
R2066 100k
R600 100k
R601 150k
R602 150k
R604 8,2k
R605 1,8k
270k R603 +-1%
R606 82
R607 1k
R608 1k
R609 56
R610 180
R616 560
R80 2.2k
R81 2.2k
R92 2.7k
R91 2.7k
R90 2.7k
R100 680
R101 56
R621 1k
R620 560
R107 220
R106 220
R103 1k
C7 1n
C9 22n
C30 22n
C40 10
C42 2,2
C43 6,8
C44 1n
C45 6,8
C46 N.B.
C52 1n
C4 6,8
C5 3,3
C1 12
C2 3,9
L4 0,18uH
L600 3,9uH
C3 1n
C2054 0,1u
C2051 0,1u
C620 0,22u
C621 0,1u
C600 0,1u
C601 0,1u
C602 1n
C603 1n
C605 0,1u
C681 0,1u
C611 180
C612 1,5n
C614 N.B.
C613 330
C615 180
C639 10n
C700 68n
C701 15n
C703 1.8n
C702 4.7n
C70 22
C71 47
C72 8,2
C74 1
C73 6,8
C704 1n
C81 10u
C82 10u
C83 0,1u
C85 22u
C84 0,1u
C86 0,1u
C87 1u
C88 1n
C89 1n
C90 1u
C91 0,22u
C92 0,1u
C93 10n
C80 0,1u
C94 0,1u
C97 0,22u
C96 0,1u
C95 0,1u
C100 0,1u
C107 100
C106 47
L30 22
L31 3,9uH
L100 1,5uH
L101 3,3uH
L102 1,5uH
L103 3,3uH
L608 1uH
L611 560uH
L612 68uH
L613 560uH
L614 68uH

HAUPTPLATTE
MAIN BOARD
Tuner

PL 9848 D05



HAUPTPLATTE
MAIN BOARD
ADEQ



HAUPTPLATTE
MAIN BOARD
NF-Quellen
AF Source

PL 9848 D05

U51D
U50
U33
U25
GND

processor
PWR_LOW_POWER
MP3_REQUEST
I2C_SCL_MP3
I2C_SDA_MP3
int.-conn.
LRCK
BCK
DATA
dab
RDI_LRCK
RDI_BCK
RDI_DATA
MP3_RESET
MP_CD_DATA
MP_CD_LRCK
MP_CD_BCK

D8700
STA016T2

D8702
UDA1330ATS

D8701
74LVC257A

MP_PIN48
MP_PIN47

CONNECTOR
FOR
MMC/SD-BOARD
ONLY A,B

MMC/SD-SLOT
ONLY C

MMC_SWITCH_UP

DAB_I2S_DATA
DAB_I2S_LRCK
DAB_I2S_BCK
AUD_SEL_CD/MP3
I2S_BCK
I2S_LRCK
I2S_DATA

MP3_R
MP3_L

af-source
af-proc.

N.B.

HAUPTPLATTE
MAIN BOARD
MP3

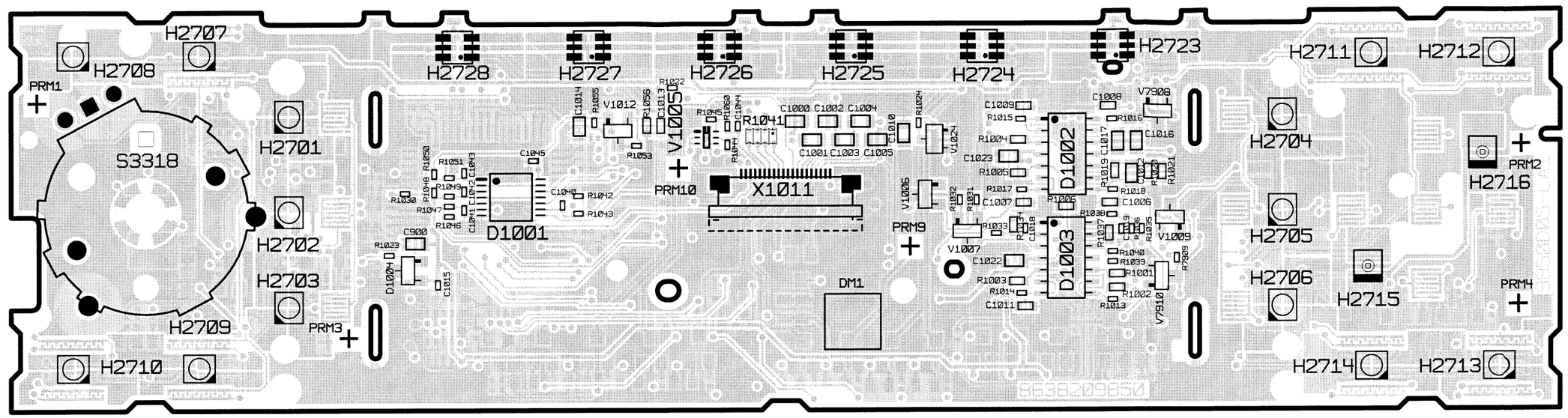
PL 9848 D05

HAUPTPLATTE
MAIN BOARD
Prozessor
Processor

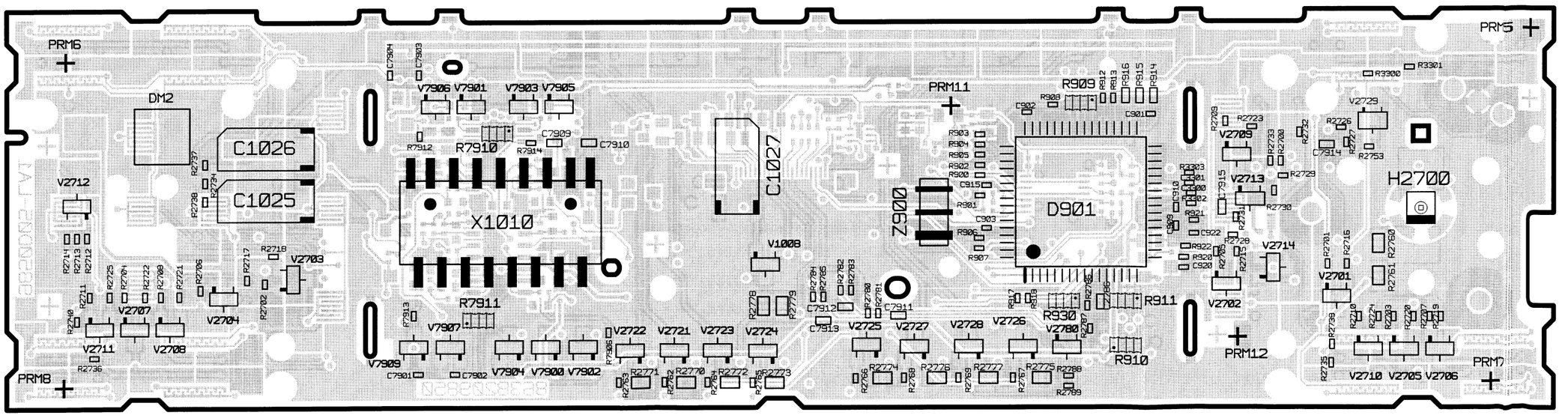
*: R823 must not be assambled with mask pocessor

PL 9848 D05

Schalterplatte
Key board
PL 8 638 219 850 D05
+Chip

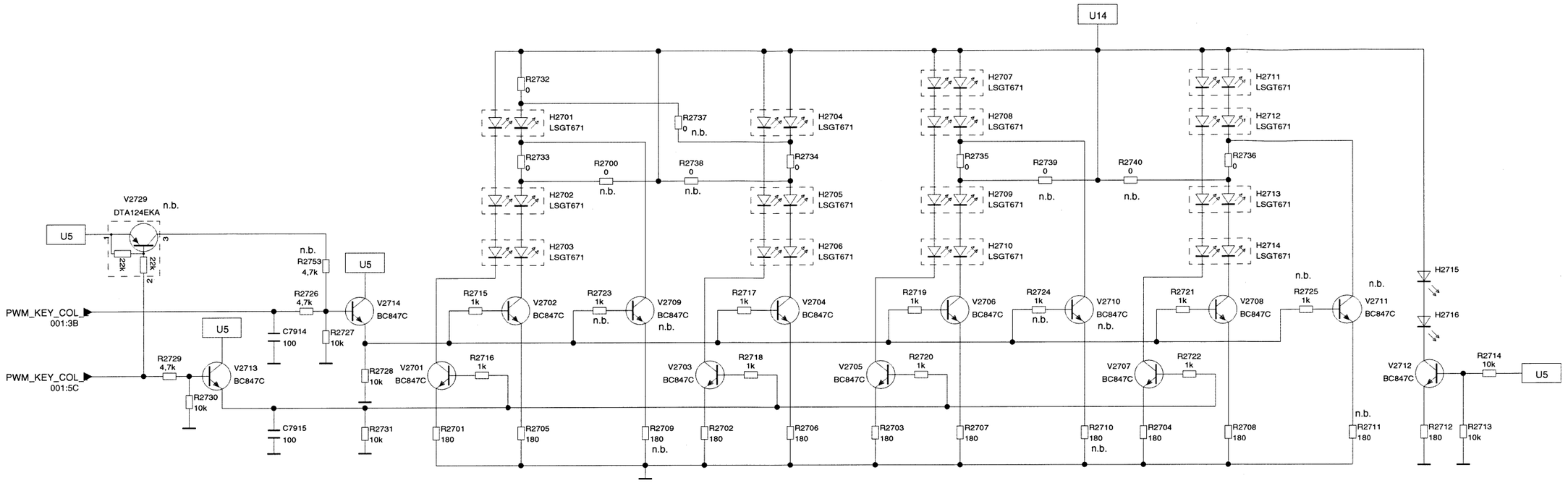


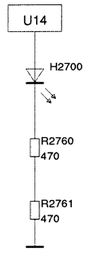
Schalterplatte
Key board
PL 8 638 219 850 D05
Chip

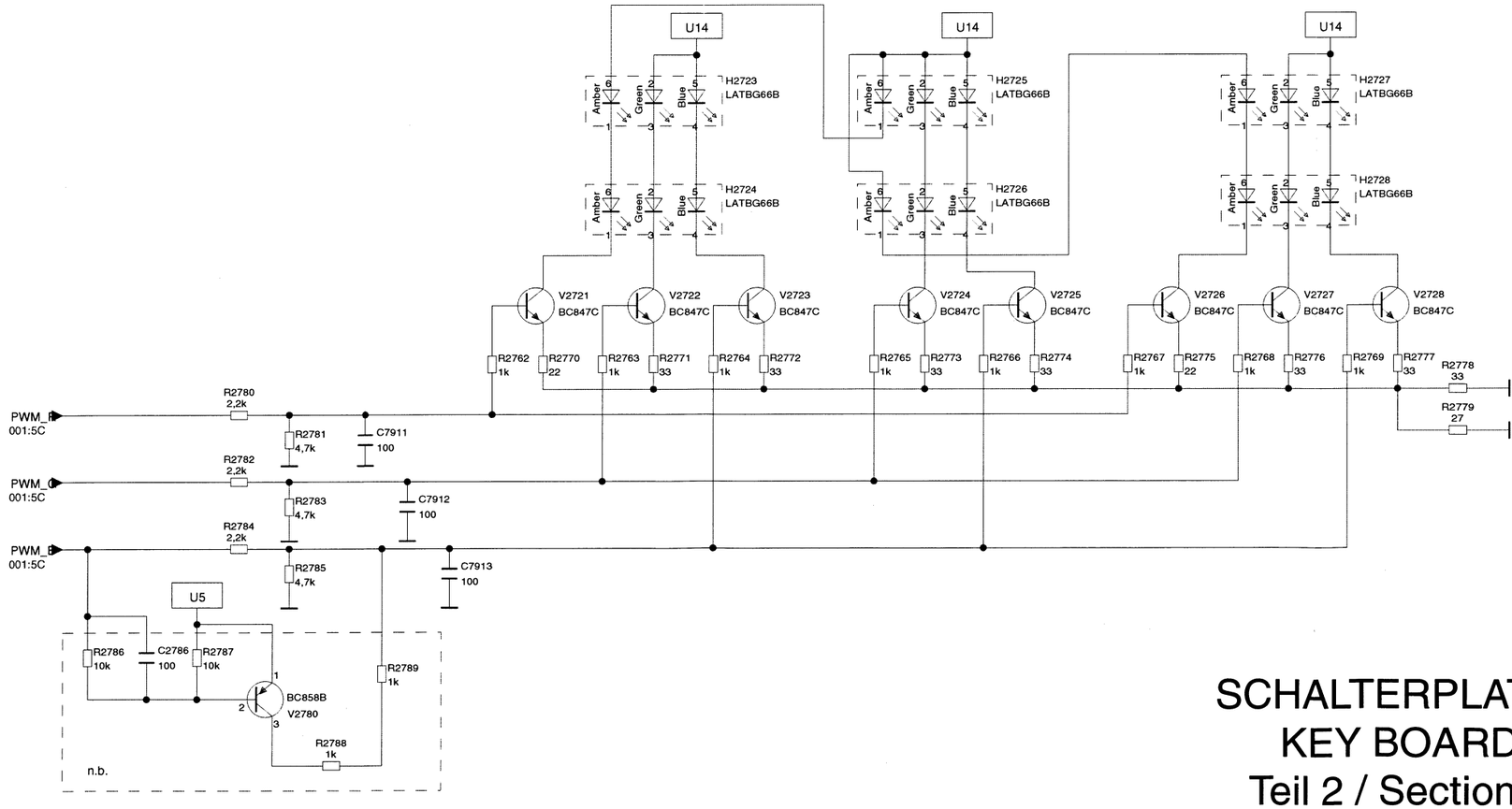


SCHALTERPLATTE
KEY BOARD
Teil 1 / Section 1

PL 9850 D05







SCHALTERPLATTE
KEY BOARD
Teil 2 / Section 2

BP7 Control board

B-Side

IC701
uPD780076AGK

IC301
MN6627482WA

IC201
AN22002A

IC101
AN8756SB

CN103
S4B-ZR-SM3A-TF
R_SW_GND 1
R_SW 2
LD_M- 3
LD_M+ 4

CN101
S2B-ZR-SM3A-TF
SP_M+ 1
SP_M- 2

CN102
S3B-ZR-SM3A-TF
GND 1
SW2 2
SW1 3

52103-1617
CN201
F+ 16
F- 15
T+ 14
T- 13
GND 12
LPD 11
VREF 10
NA 9
GND 8
NB 7
GND 6
GND 5
LD 4
PDE 3
PDF 2
VCC 1

CN302
AMPX14P
1 VCC
2 VUC
3 MGND
4 LRCK
5 DATA
6 BCK
7 GND
8 RESET
9 L_START
10 TXD
11 D-OUT
12 BUSY
13 WAKE_UP
14 POWER_DOWN
DIGITAL

BP7 Digital 3,3V
2x Speed
8 638 812 461

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